USER MANUAL

APC

punk console

TEK'IT AUDIO

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Revision 3

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Overview

Thank you for choosing APC, Tek'it Audio virtual re-creation of a popular DIY circuit the Atari Punk Console. APC is a square wave synthesizer that creates fun "low-fi" sound, and comes with users MODs based on real DIY mods.

Also know as "Stepped Tone Generator", published in 1980 by Forrest M. Mims III, the circuit consist of a frequency oscillator that drive a monostable which emits square output pulses. The circuit has become very popular on the DIY electronic music scene and now you can experiment it directly in your DAW.

We hope you enjoy this software, and create music with him. Please, take the time to read this manual and learn how to exploit all the feature of APC.

Feature highlights

- Square waves "low-fi" sound.
- Gate MOD with hold function.
- Users can submit new MODs online.
- 8 users MODs available.
- Full MIDI automation support.
- MIDI learn on all parameters.
- Use 7-bit MIDI Continuous Controller or High resolution 14-bit MIDI NRPN and RPN.
- Integrated presets manager.
- Undo changes with one click.

Requirements

This software is a "Virtual Studio Technologies" plug-in, he work only with VST 2 compatible host software or through the use of a VST adapter.

Operating System: Microsoft® Windows® 8, 7, XP (SP2 or later), or Vista™.

CPU: 1GHz or higher with SSE2.

Memory: 512 Mb RAM or higher.

Graphics: 800x600 32 bit or higher.

Audio: High quality audio interface with minimum 44kHz samples rates.

MIDI: To use the automation a Host with automation features
For MIDI learn a MIDI interface and an external MIDI controller is required.

Installation

1. Simply run the installer program by double-clicking it, and follow the on-screen instructions.

2. Run your host software and load TA APC. Consult your host documentation for more information.

Our un-installer keep your system clean, all the files are deleted and there are no entry left in your Windows registry.

Using

Preset Manager
Open the preset manager popup menu

Notes
Open a popup where you can write the author name of the preset and notes

Preference Menu
MODs selection panel

HOLD
Switch the gate to hold

GATE
Control the gate of the output signal

Preset Selector
Change the current preset and rename it

Undo Changes
Undo all your changes to their initial value

BLEEP
Control the frequency of the wave

BLOOP
Control the lenght of the wave

LOUD
Control the output level

MODs

APC can be extended by the use of "MOD". There are two types of MODs, "Circuit Mods" which concern the audio part such has filters and "Case Mods" winch concern the interface part. APC is shipped by default with four Circuit Mods replica of Mod made on the real hardware.

Highpass & Low-pass Resonant Filter

CUT: control the cut-off frequency. For high-pass filter, this means that frequencies lower than the cut-off point are attenuated. For low-pass filters, this means that frequencies above the cut-off point are attenuated.

RESO: Controls the resonance of the filter. The frequencies around the cut-off frequency are raised. If you turn the knob at full right, the filter can enter in self resonance.

Tone Push Button

Change the tone of the frequency oscillator by +/- 1 octave.

LFO

Change the rate (speed) of the LFO. The LFO modulate the BLOOP parameter.

LFO to Filter

The LFO modulate the filter cut-off instead of the BLOOP parameter.

Bleep Keytrack

Play notes on your keyboard or your sequencer to change the Bleep value.

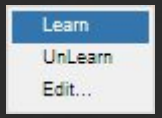
MIDI

APC have integrated MIDI learn and full automation on all parameters.

Integrated MIDI learn

All controls can be controlled by an external MIDI controller easily, simply right click on the parameters you want to control and the Learn pop-up menu appear.

Learn



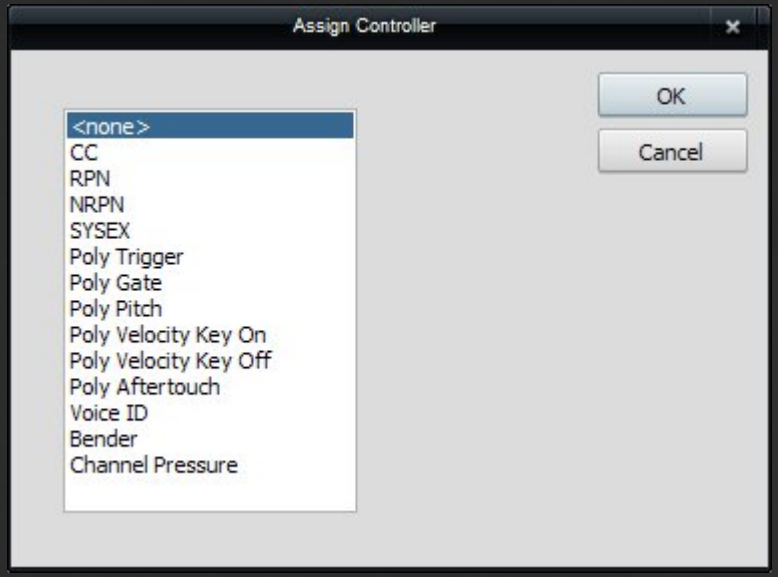
Click on Learn, move a control on your MIDI device and it will be automatically assigned.

Unlearn

Click on UnLearn will clear the controller.

Some hosts (like FL Studio) filters MIDI CC messages coming from MIDI controller, intregrated MIDI learn can't work properly in such hosts.

Edit...



Cilck on Edit will open the Assign Controller dialog. You can change manualy the MIDI controllers using 7-bit MIDI Continuous Controller or High resolution 14-bit MIDI NRPN and RPN.

Automation

Each controls can be automated using your host automation features. Consult your host documentation for information on how to do this.

Overview of default MIDI CC Assignment

MIDI CC	Target
80	ENV - Gate
64	ENV - Hold
102	MD HPF - Active
103	MD HPF - Cutoff
104	MD HPF - Reso
105	MD Tone - Active
106	MD Tone - Down
107	MD Tone - Up
75	Punk - Bleep
76	Punk - Bloop
7	Punk - Loud

MIDI CC	Target
108	MD LFO - Active
109	MD LFO - Rate
110	MD LPF - Active
111	MD LPF - Cutoff
112	MD LPF - Reso

Updates and Support

Updates will be made available at
http://tekit-audio.com/apc/
Check the related pages for more information on the updates.
Registered customers will be informed by email of updates availability.

Additionaly you can follow us on Twitter for instant updates and news at
http://twitter.com/TekitAudio

For product support, ideas, complaints, testimonials, sound demo, presets and anything you feel is worth sharing, please use our contact form at
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Sequenced frequency cutter

Visit tekit-audio.com for more information !

Credits

Code, design and conception:
Michaël Dubois

Additional Softwares:
Andrew Allen Ainslie
Chris Kerry
Jeff McClintock
Jordan Russell

GUI Design:
Michaël Dubois

Preset Design:
Michaël Dubois

Software Test:
Michaël Dubois

User Manual:
Michaël Dubois

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Create, play !